



EVENT DESCRIPTION

Project partner: ESV

Regional training seminar

Date & location: 22 September 2011, Linz / Upper Austria

Organiser: O.Ö. Energiesparverband

Number of Participants: 16

Summary

The aim of the training seminar was to provide the principle know-how to size and plan solar installations and to get an insight into the possibilities of using solar process heat in industry. An overview on the most relevant processes was given and it was demonstrated how to plan larger solar thermal systems. A focus was put on how to integrate solar thermal process heat into the existing energy supply system. Successful examples from the region, from Germany and worldwide were presented and an interactive training session on the planning guidelines was carried out.

The training seminar targeted at representatives from companies who are responsible for energy matters, solar thermal companies (producers of collectors), planners, installers, energy consultants.

The presentations included information on:

- design, implementation and installation of larger solar thermal systems
- technical support in planning and integrating solar process heat installations
- information on selected industrial processes
- ways to measure/estimate heat demand and sizing of a solar system
- economic viability of technical concepts
- information on public subsidies and contracting
- interactive training session
- best practice examples

The training seminar was implemented with the support of ISE who, as scientific partner of the SO-PRO project, explained the planning guidelines in detail and carried out an interactive training session with the participants.

Objective & main programme point

The aim of the training seminar was to offer technical information on the possibilities of integrating and implementing solar process heat in industry. The training seminar was opened with an overview of the SO-PRO project and the findings so far. The introduction also included information on financing options, such as contracting.

After that ISE carried out 2 training sessions to explain the use of the planning guidelines in detail. This was also done by carrying out an interactive training session to enable participants to do calculations themselves. Additionally a training session provided know-how on planning and installing larger solar thermal systems. The seminar programme was continued by the discussion of concrete examples of solar process heat installations. Examples from Austria, Germany and world-wide were presented.

During the coffee and lunch breaks the presentations were discussed in detail and participants very much used the opportunity to get into contact with the speakers.

Conclusions & lessons learnt

Once more the training seminar clearly showed, that solar process heat is no easy field to tackle and lot remains to be done in the next years to speed up market development. The technical potential is huge and appropriate system technology and collectors are available. A number of examples were presented, however, it was made clear that solar process heat is no standard solution yet and in general plants are individually planned. Therefore the tools developed within the SO-PRO project are very helpful and were valued very much by the participants.

The feedback received was very positive: all participants considered the seminar as good, over 50 % even excellent/very good. The main motivation to participate in the seminar was to learn more about designing, sizing and installing larger solar thermal systems and to get a deeper insight in the possibilities of solar thermal process heat. The professional expertise, the exercise session and the presentations of best practice examples were liked best. For further improvement, more detailed technical information on the implementation of large solar process heat installations and further exercises were suggested. The participants contributed actively in the seminar.

It is planned to include the SO-PRO training course in the regular training programme of the "Energy Academy" managed by ESV, where more than 40 training courses are held annually covering different sustainable energy topics. Making it part of the annual training programme also ensures the sustainability of the training course and which offers an ideal platform to promote it (as it is well-known by the actors and target groups). In addition information on solar process heat is included in regular presentations of ESV.

ANNEX

The following documents are included in the Annex:

- Programme
- Pictures

Programme



Trainingsseminar "Solare Prozesswärme"

22. September 2011, 09:00 - 16:40, Linz

PROGRAMM

- 09.00** **Begrüßung, Einleitung**
So-Pro Projekt, Solarthermie in OÖ, Contracting
Mag. Christiane Egger, O.Ö. Energiesparverband
- 09.50** **Planungsunterstützung solare Prozesswärme-Anlagen**
DI (FH) Stefan Heß, Fraunhofer Institut für Solare Energiesysteme, D
- 10.40 *Kaffeepause*
- 11.00** **Planungsunterstützung solare Prozesswärme-Anlagen**
DI (FH) Stefan Heß, Fraunhofer Institut für Solare Energiesysteme, D
- 11.50 *Mittagspause*
- 13.15** **Planung von größeren thermischen Solaranlagen**
DI Harald Dehner, ASiC
- 14.55 *Kaffeepause*
- Präsentation Anlagen-Beispiele:**
- 15.10** **Deutschland:** *DI (FH) Stefan Heß, Fraunhofer Institut, D*
- 15.40** **Österreich:** *Christoph Mossböck, Hoval*
- 16.10** **Weltweit:** *DI Josef Buchinger, SOLID*
- 16.40 *Ende des Trainingsseminars*

PICTURES

